

Title: Switch Fabric Scheduling With Fairness And Priority Consideration
Applicants: Gireesh Shrimali, et al. Docket: RAMB-01013US0
Appl. No.: 10/614,423 Atty: Kirk J. DeNiro, Esq.
Filing Date: July 7, 2003 Phone: (415) 369-9660

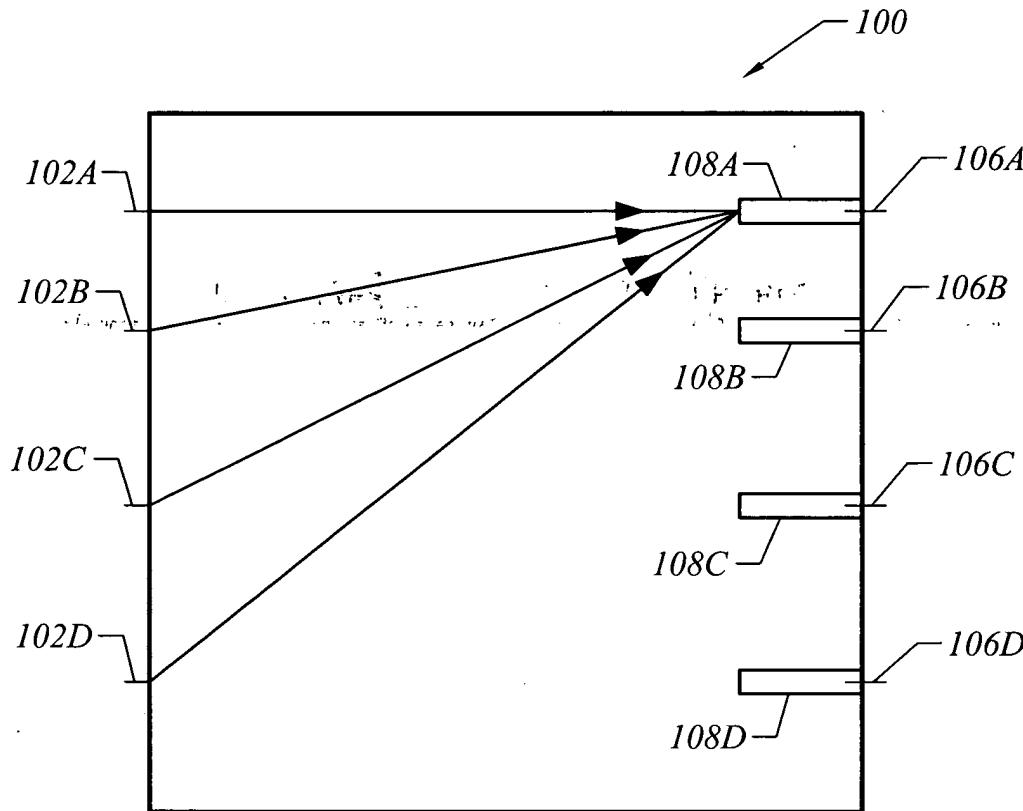


FIG. 1
(Prior Art)

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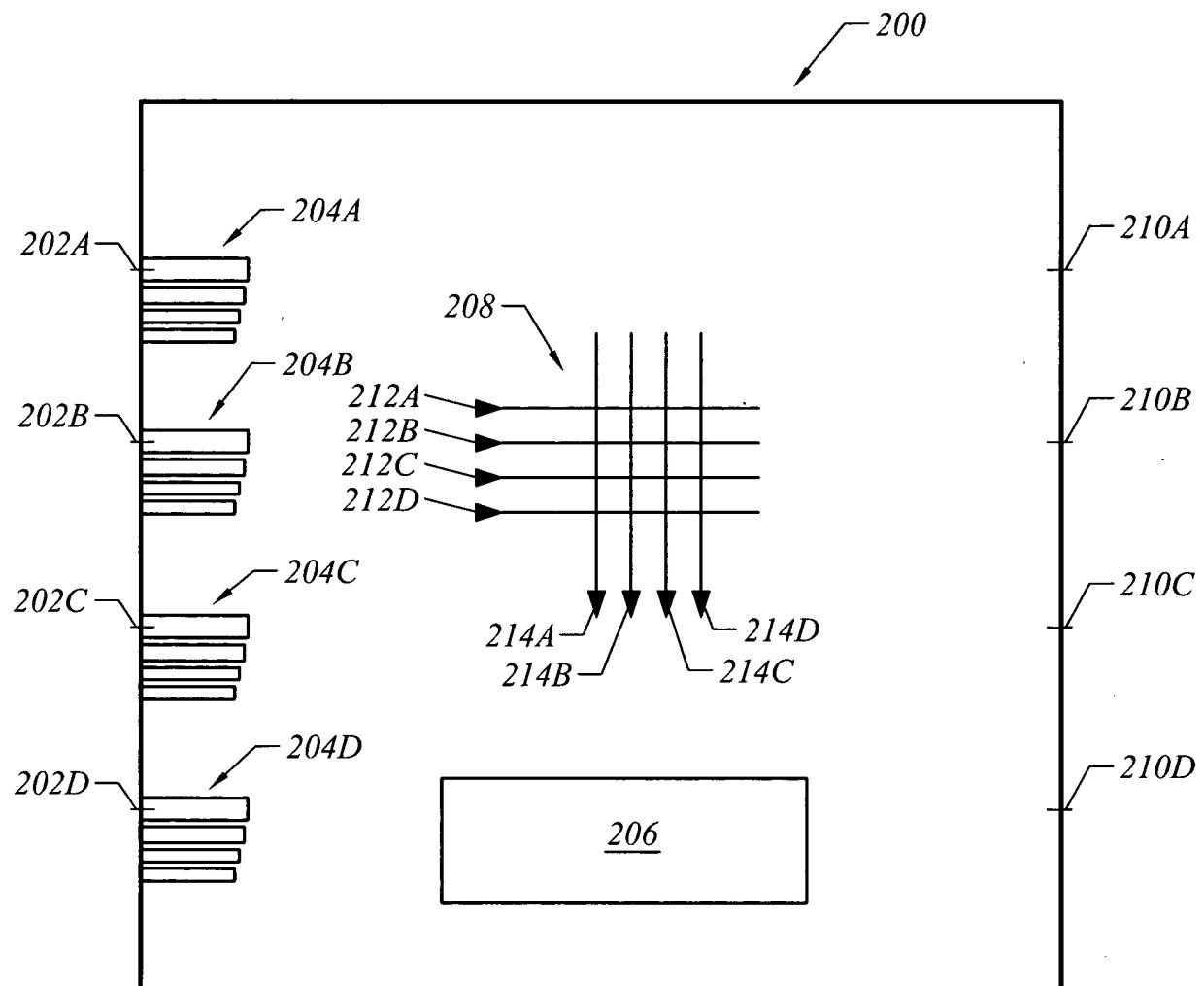


FIG. 2
(Prior Art)

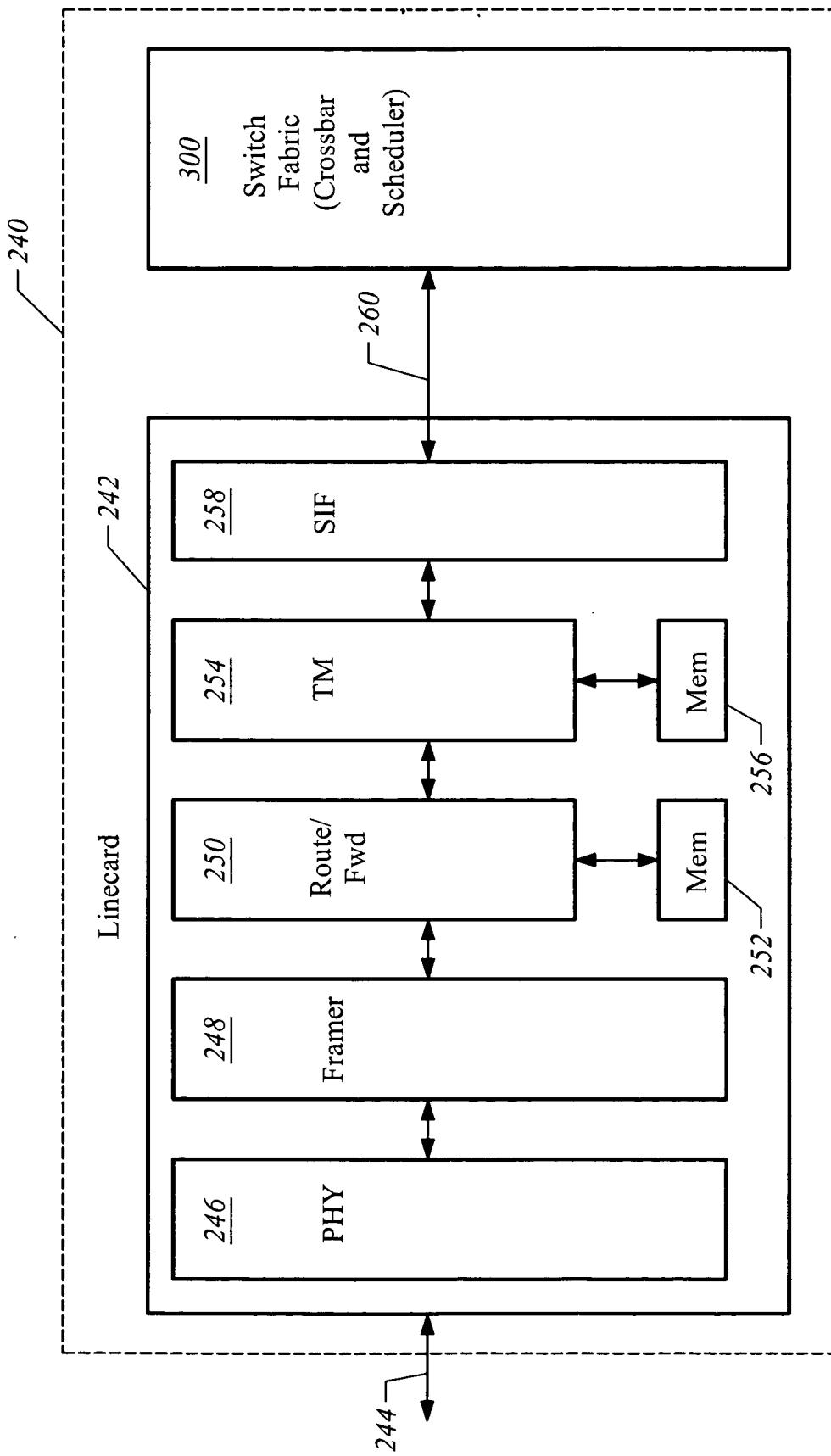


FIG. 3

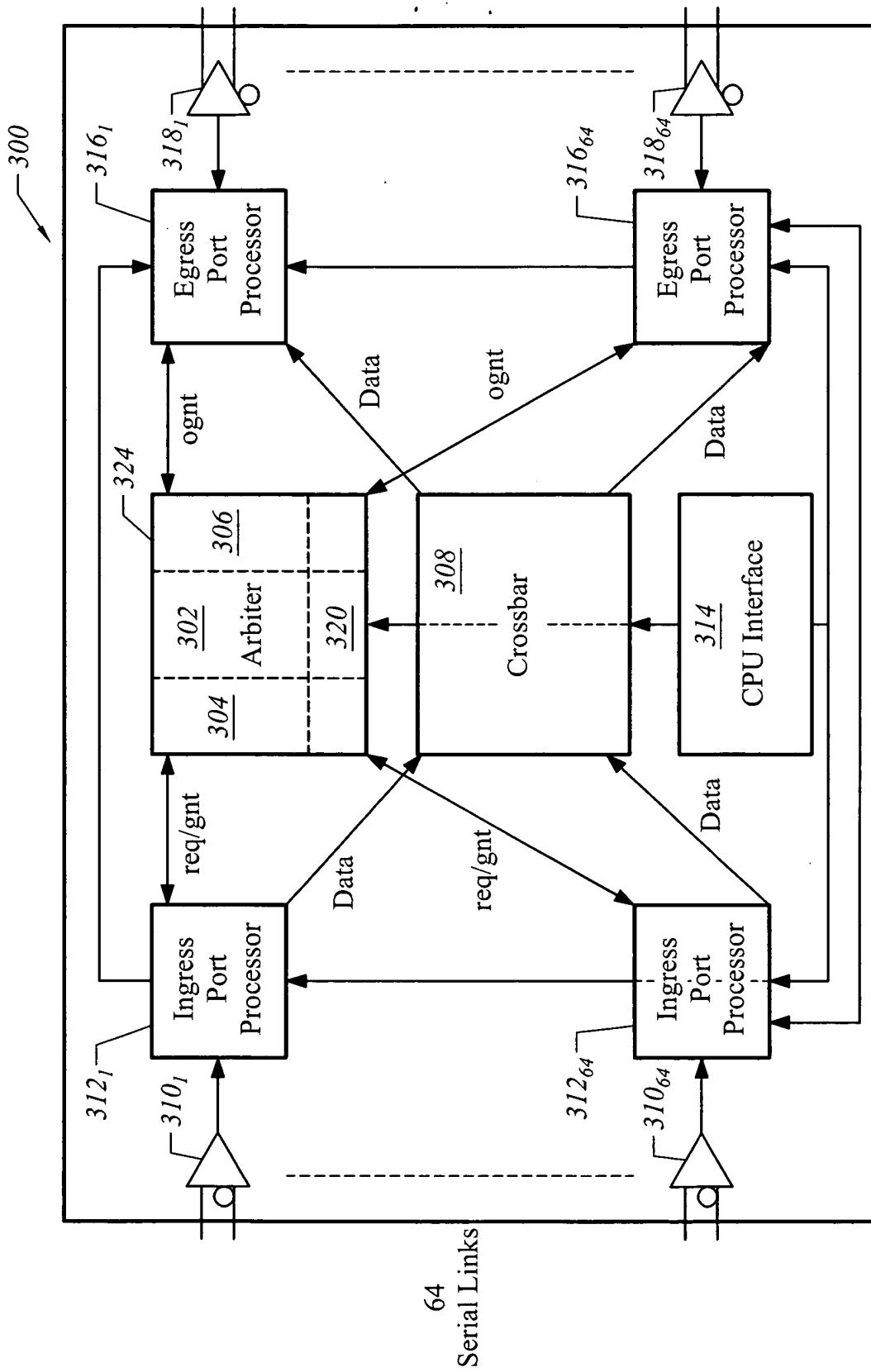


FIG. 4

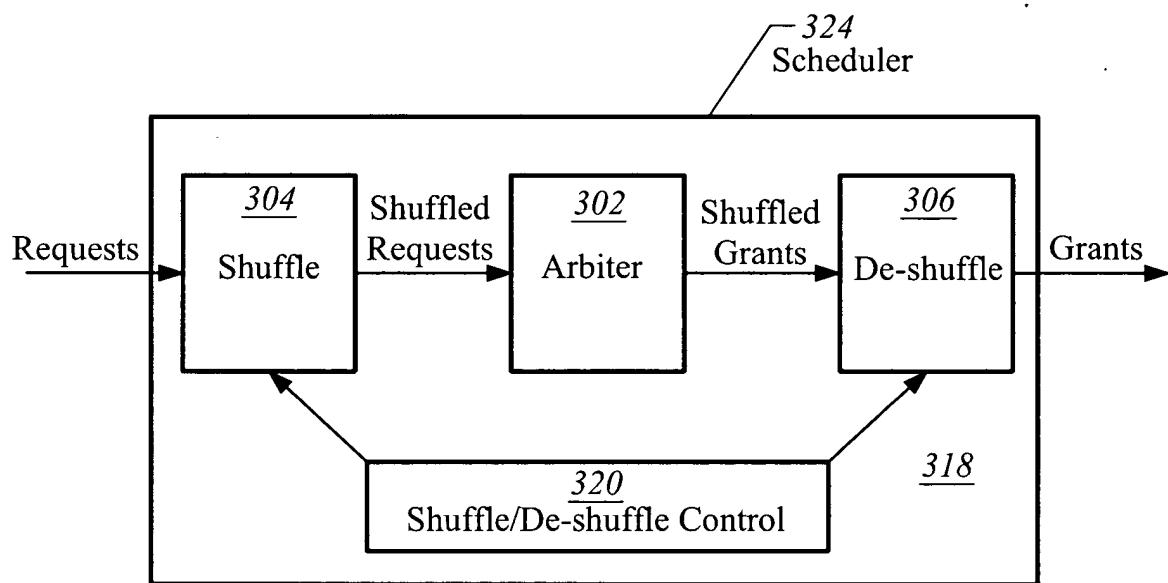


FIG. 5

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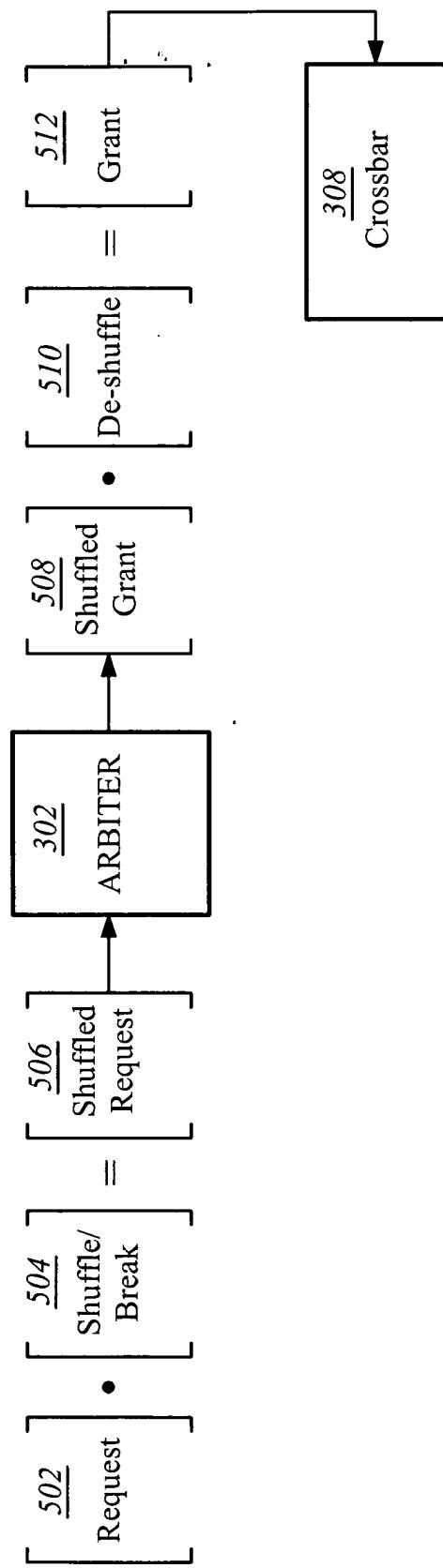


FIG. 6

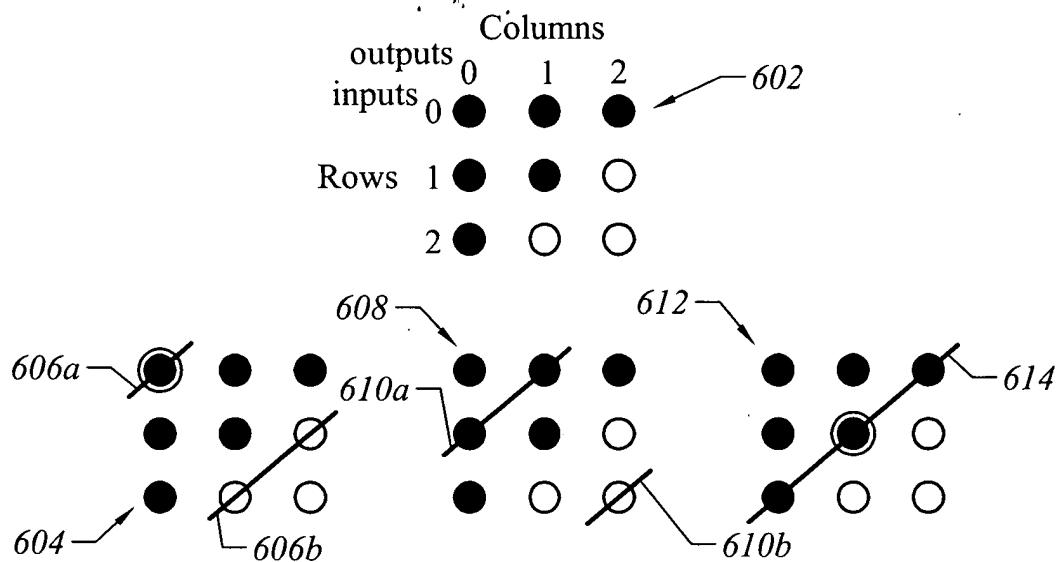


FIG. 7

Row or Col Position	0 1 2	0 1 2	0 1 2	0 1 2
Calculated Shuffle Control	1 2 0	0 2 1	2 1 0	1 0 2
Row Shuffle	1 2 0	0 2 1	2 1 0	1 0 2
Col Shuffle	1 2 0	1 2 0	2 1 0	2 0 1
Cell Time	0	1	2	3

FIG. 8

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Row or Col Position	0 1 2	0 1 2	0 1 2	0 1 2
Calculated Shuffle Control	1 2 0	0 2 1	2 1 0	1 0 2
Row Shuffle	1 2 0	1 2 0	2 1 0	2 0 1
Col Shuffle	1 2 0	0 2 1	2 1 0	1 0 2
Cell Time	0	1	2	3

FIG. 9

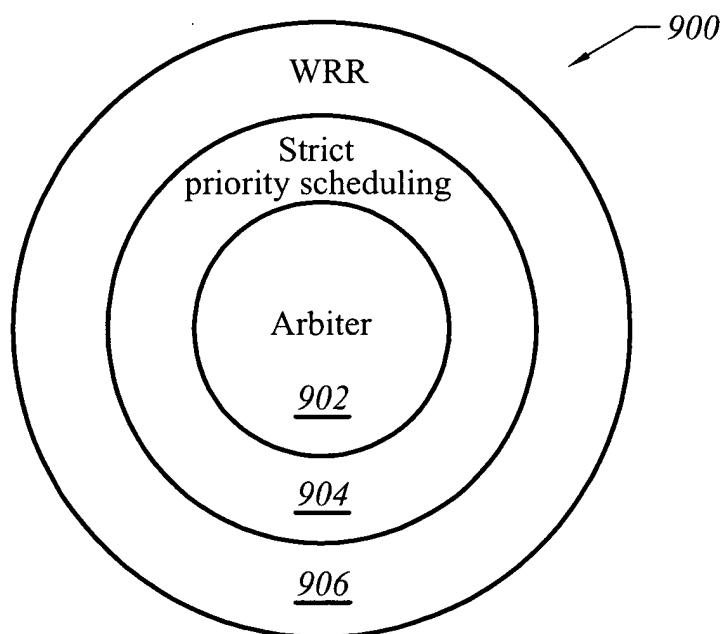


FIG. 10

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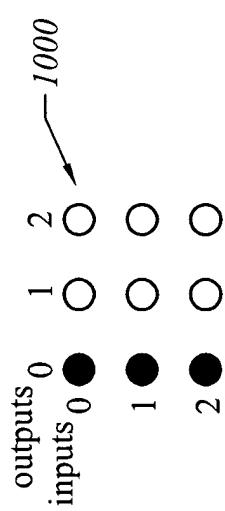


FIG. 11

In Out Weights

$$\begin{matrix} 0 \rightarrow & 0 \\ 1 \rightarrow & 0 \\ 2 \rightarrow & 0 \end{matrix}$$

$$\begin{matrix} & 3 \\ & 1 \end{matrix}$$

$$1100$$

FIG. 12

Cell Time	0	1	2	3	4	5	6	7	8
Credits 0 → 0	2	2	2	2	2	2	1	0	2
Credits 1 → 0	3	2	2	1	1	0	0	0	3
Credits 2 → 0	1	1	0	0	0	0	0	0	1
Grants	1 → 0	2 → 0	1 → 0	2 → 0	1 → 0	2 → 0	0 → 0	0 → 0	1 → 0

↑ Potential unused grants ↓ RESET

FIG. 13

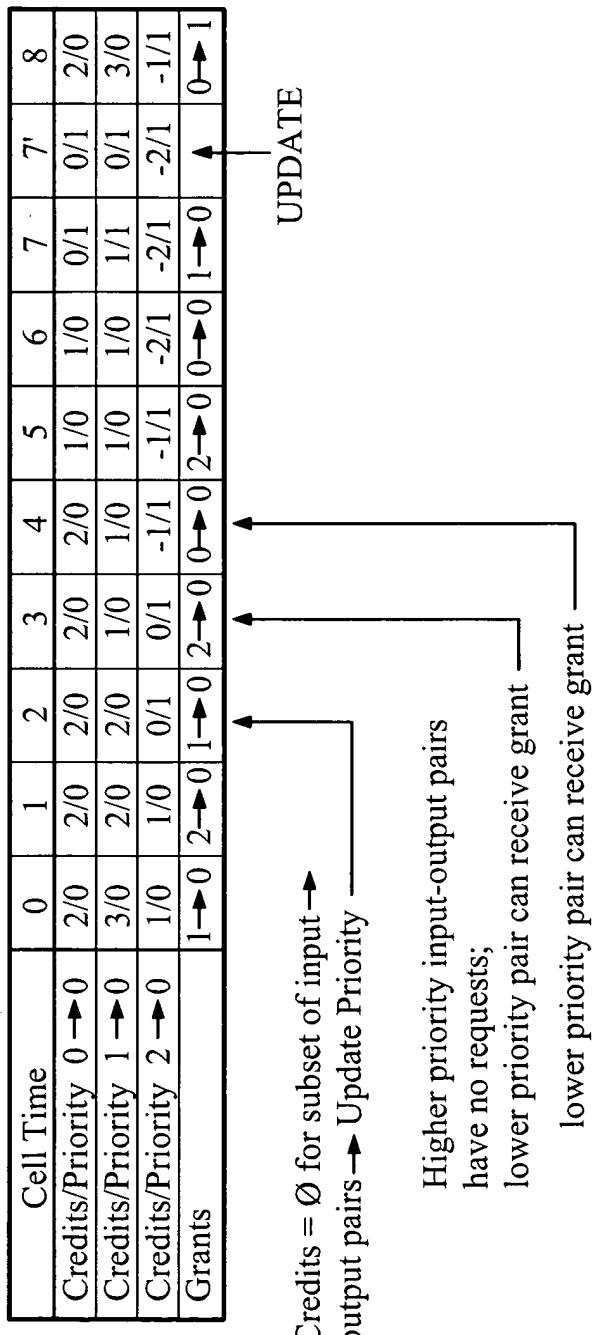


FIG. 14

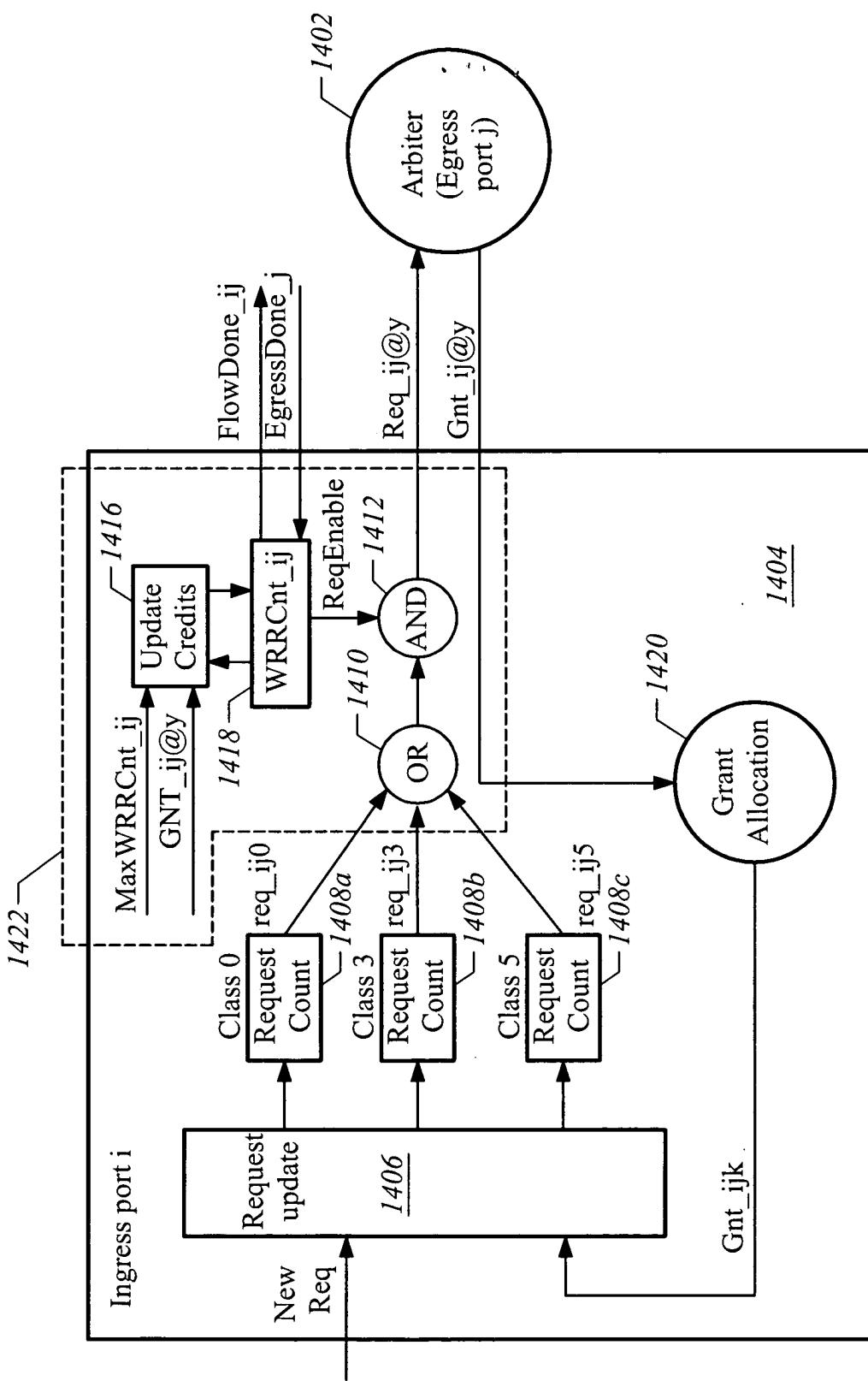


FIG. 15

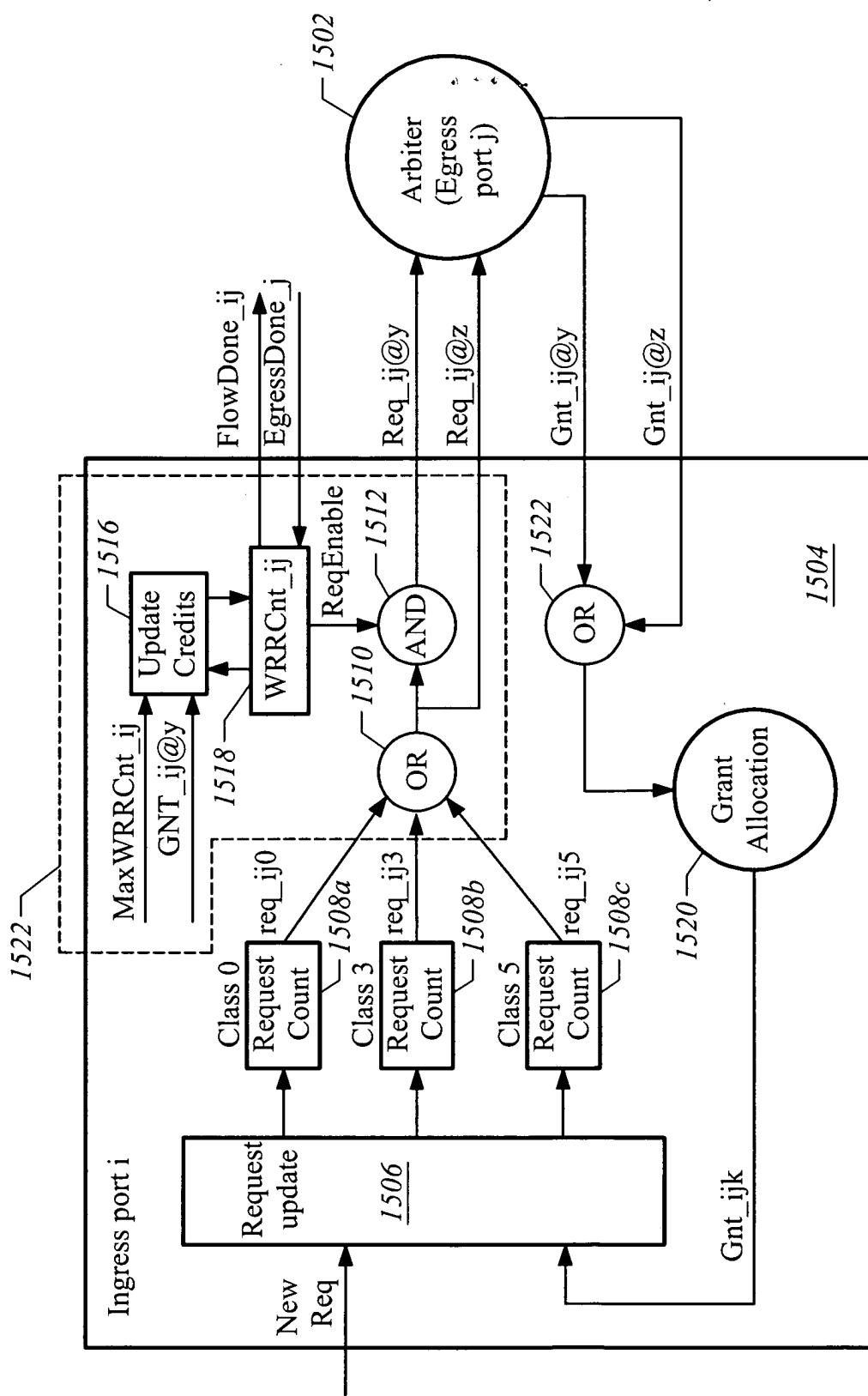


FIG. 16